

MATERIAL SAFETY DATA SHEET

DATE PREPARED: 09/30/1998

MSDS No: 6097

SOLARIS

Weed-B-Gon Chickweed, Clover & Oxalis Weed Killer

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Weed-B-Gon Chickweed, Clover & Oxalis Weed Killer**PRODUCT DESCRIPTION:** Herbicide

MANUFACTURER

The SOLARIS Group
of Monsanto Company
P.O. Box 5008
San Ramon, CA 94583-0808

24 HR. EMERGENCY TELEPHONE NUMBERS

Emergency Phone 800-225-2883**EPA REG. NO.:** 239-2491D PN: 5467

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt. %</u>	<u>CAS#</u>
Triclopyr, Triethylamine Salt	8	57213-69-1

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Light amber liquid**IMMEDIATE CONCERNS:** CAUSES MODERATE EYE IRRITATION

AVOID CONTACT WITH EYES OR CLOTHING

AVOID BREATHING SPRAY MIST

KEEP OUT OF REACH OF CHILDREN

POTENTIAL HEALTH EFFECTS

EYES: The undiluted product maybe moderately irritating to the eyes. Eye contact may result in discomfort, tearing, swelling, redness, and blurred vision. See Toxicological Information, section 11.

SKIN: This substance is not expected to cause prolonged or significant skin irritation. If

absorbed through the skin, this substance is considered practically non-toxic to internal organs. See Toxicology Information, section 11.

INGESTION: If swallowed, this substance is considered practically non-toxic to internal organs. See Toxicology Information, section 11.

INHALATION: The systemic toxicity of this substance has not been determined. However, it should be practically non-toxic to internal organs if inhaled. Inhalation overexposure to the spray mist may be irritating to the respiratory tract. Respiratory tract irritation may include nasal discharge, sore throat, coughing, bronchitis and breathing difficulties.

4. FIRST AID MEASURES

EYES: Flush eyes immediately with plenty of water. Call a physician if irritation persists.

SKIN: Wash with plenty of soap and water. Get medical attention.

INGESTION: If swallowed, call a physician or Poison Control Center. Do not induce vomiting.

INHALATION: If respiratory discomfort or irritation occurs, move the person to fresh air. See a doctor if discomfort or irritation continues.

ADDITIONAL INFORMATION: Medical Information: Call day or night, 1-800-225-2883.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: >200°F TAG CC

EXTINGUISHING MEDIA: Alcohol Foam, CO2, Dry Chemical, Water Fog

HAZARDOUS COMBUSTION PRODUCTS: Normal combustion forms carbon dioxide and water vapor and may produce oxides of nitrogen. Combustion may produce toxic compounds of chlorine.

FIRE FIGHTING PROCEDURES: Products of combustion from fires involving this material may be toxic. Avoid breathing smoke and mists. Avoid personnel and equipment contact with fallout and runoff. Minimize the amount of water used for fire fighting. Do not enter any enclosed area without full protective equipment, including self-contained breathing equipment. Keep containers cool with a water spray. Contain and isolate runoff and debris for proper disposal. Decontaminate personal protective equipment and fire fighting equipment before reuse. Read the entire document.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Soak up spilled material with paper towels and discard in trash.

LARGE SPILL: Liquid spills on floor or other impervious surfaces should be contained or diked, and should be absorbed with attapulgite, bentonite or other absorbent clays. Collect contaminated absorbent, place in plastic-lined metal drum and dispose of in accordance with instructions provided under Section 13. "DISPOSAL". Thoroughly scrub floor or other impervious surface with a strong industrial type detergent solution and rinse with water.

For liquid spills that soak into the ground, contact the applicable Federal, State and or County Health Dept. for disposal recommendations. If disposal is required then refer to Section 13 "DISPOSAL" for instructions.

Leaking containers should be separated from non-leakers and either the container or its contents transferred to a drum or other non-leaking container and disposed of in accordance with instructions provided under Section 13 "Disposal". Any recovered spilled liquid should be similarly collected and disposed of.

Do not contaminate water, foodstuffs or feed by storage or disposal.

GENERAL PROCEDURES: Observe all protection and safety precautions when cleaning up spills -- see Section 8. "EXPOSURE CONTROLS/PERSONAL PROTECTION". For help with any spill, leak, fire or exposure involving this material, call day or night (800) 454-2333.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Store in a cool, dry place, preferably locked storage area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Use this material only in well ventilated areas.

PERSONAL PROTECTION

EYES AND FACE: Wear chemical safety goggles to prevent eye contact during operations such as mixing or transfer or other activities when there is potential for eye contact.

SKIN: Although this product does not present a significant skin concern, minimize skin contamination by following good handling practices. Applicators and other handlers must wear: long sleeved shirt, long pants, and shoes with socks. Wash hands and contaminated skin thoroughly after handling.

RESPIRATORY: Avoid breathing vapor or mist. This product is not likely to pose an airborne exposure concern when handled and used in accordance with label instructions.

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200):

Chemical Name

EXPOSURE LIMITS
OSHA PEL ACGIH TLV ACGIH STEL

Triclopyr, Triethylamine Salt

None

None

None

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

APPEARANCE: Light amber liquid

pH: ~7.0 to 10.0

PERCENT VOLATILE: No Data Available

BOILING POINT: No Data Available

FREEZING POINT: No Data Available

MELTING POINT: No Data Available

SOLUBILITY IN WATER: Miscible with water.

EVAPORATION RATE: No Data Available

COMMENTS:

DENSITY: 8.5 lb/gal

10. STABILITY AND REACTIVITY

STABLE: YES

HAZARDOUS POLYMERIZATION: NO

CONDITIONS TO AVOID: Avoid contact with strong oxidizers.

HAZARDOUS DECOMPOSITION: Exposure to heat or flame may produce carbon monoxide, hydrogen chloride and nitrogen oxides.

INCOMPATIBLE MATERIALS: May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

11. TOXICOLOGICAL INFORMATION

ACUTE

EYES: Rabbit - slight irritation, eyes clear by day 4.
EPA FIFRA toxicity category - III.

DERMAL LD₅₀: Rabbit - = > 5.0 g/kg. **SKIN IRRITATION** - Rabbit - no irritation at 48 hours.

EPA FIFRA toxicity category - IV.

ORAL LD₅₀: Rat, male = > 5.0 g/kg.

EPA FIFRA toxicity category - IV.

INHALATION LC₅₀: Rat - 4 hour inhalation = > 2.0 mg/liter.

EPA FIFRA toxicity category - IV.

SENSITIZATION: This material was not a skin sensitizer in the Buehler Guinea Pig Sensitization Test.

SUBCHRONIC: Results of rat, mouse and dog subchronic toxicology testing indicated that the rodent no observable effect level (NOEL) was 60 mg/kg/dy. Dogs were more sensitive to triclopyr than rodents because of decreased ability of kidneys to excrete triclopyr. The NOEL in the dog was 10 mg/kg/dy in the 90-day feeding study.

CARCINOGENICITY:

CARCINOGENICITY COMMENTS: Triclopyr is not considered to be a carcinogen. Results of rat and mouse lifetime feeding studies did not demonstrate any evidence that triclopyr caused an increase in cancer. The only significant findings were increased kidney weights and water consumption and renal tubule changes. The NOEL for both studies was 30 mg/kg/dy.

TERATOGENICITY: Triclopyr is not considered to be a teratogen or cause birth defects. Results of rat and rabbit teratology studies indicated that at high dose levels there was evidence of maternal toxicity, but no treatment related developmental changes. The high dose in the rabbit study was 200 mg/kg/dy.

REPRODUCTIVE TOXIN: The results of a 3-generation reproduction study demonstrated no triclopyr associated changes regarding reproductive capacity, growth, pregnancy, parturition, neonatal survival and maturation. The highest dose level was 30 mg/kg/dy.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Triclopyr has an average half-life in the soil of approximately 30 days. The degradation process is hastened by increased availability of sunlight and bacteria.

ECOTOXICOLOGICAL INFORMATION: Triclopyr has a very low toxicity to fish, waterfowl and birds.

13. DISPOSAL CONSIDERATIONS

FOR LARGE SPILLS: Material collected that cannot be reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, State or local procedures.

PRODUCT DISPOSAL: The Solaris Group is committed to responsible environmental practices and recommends that all of the product be used up, carefully following all label directions and precautions.

If necessary to dispose of partially filled or empty container, securely wrap container in newspaper and put in trash.

EMPTY CONTAINER: Do not reuse container.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not Regulated

PRIMARY HAZARD CLASS/DIVISION: None

UN/NA NUMBER: NONE

PACKING GROUP: NO

U.S. SURFACE FREIGHT CLASS: Tree or weed killing compounds, NOI, Density of 20 lbs. or greater per cu. ft.

AIR (ICAO/IATA)

PROPER SHIPPING NAME: Not Regulated

SPECIAL SHIPPING NOTES: The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

PRODUCT CLASSIFICATION UNDER SECTION 311 OF SARA				
ACUTE:	CHRONIC:	FIRE:	REACTIVITY:	PRESSURE
YES	NO	NO	NO	GENERATING: NO

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: All non FIFRA regulated components are on the US EPA's TSCA Inventory List.

16. OTHER INFORMATION

HMIS CODES

FIRE: 0 HEALTH: 1 REACTIVITY: 0 PROTECTION: -

NFPA CODES

FIRE: 0 HEALTH: 1 REACTIVITY: 0 SPECIAL: -

APPROVAL DATE: 09/30/1998

REVISION SUMMARY

MANUFACTURER SUPPLEMENTAL NOTES: EPA FIFRA (Federal Insecticide, Fungicide and Rodenticide Act) Toxicity Categories: The EPA toxicity categories are based on the results of the acute toxicology studies. The toxicology findings are compared to the FIFRA criteria to determine the product label signal word, precautionary and first aid statements. The EPA FIFRA toxicity category summary:

EPA FIFRA Product Label Toxicity Rating
Toxicity Category Signal Word

I DANGER Most toxic and irritating
II WARNING
III CAUTION
IV CAUTION Least toxic and irritating

COMMENTS: For additional information concerning this product, call the SOLARIS Groups Consumer Helpline at 800-225-2883.

MANUFACTURER DISCLAIMER: This Material Safety Data Sheet (MSDS) contains health, safety and environmental information for you and your employees. It does not replace the precautionary language, use directions, or the storage and disposal information found on the product label. Information contained in this MSDS will help you to prepare for emergency response and to meet community right-to-know, emergency response and reporting requirements under SARA Title III and many other laws. Emergency response agencies and health care providers will also find this additional information useful.

Use of this product is regulated by the U.S. Environmental Protection Agency (EPA) through the approved label copy. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

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